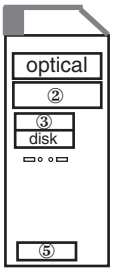
ThinkStation® E30 (7824) - TopSeller (Discrete Graphics)

Type-model	Slot x bay	Processor	GHz	Cores / Threads	Memory DIMMs	ECC	Disk(s)	Pre-conf RAID	SATA optical	Media reader	Chassis Intrusion switch	1394 adptr	Graphics adapter(s)	Global	Win7 preload
7824-55U	4x5	Xeon E3-1220	3.1	4C/4T	1x4GB		1x500GB SATA	No	DVD±RW	Media			Quadro 600	No	Pro 64
7824-56U	4x5	Xeon E3-1230	3.2	4C/8T	1x4GB	ECC	1x500GB SATA	No	DVD±RW	Media			Quadro 600	No	Pro 64
7824-57U	4x5	Xeon E3-1240	3.3	4C/8T	1x4GB	ECC	1x500GB SATA	No	DVD±RW	Media			Quadro 2000	No	Pro 64
7824-81U	4x5	Xeon E3-1280	3.5	4C/8T	2x2GB	ECC	160GB SSD+1TB SATA	No	DVD±RW	Media			Quadro 2000	No	Pro 64
7824-99U	4x5	Xeon E3-1245	3.3	4C/8T	4x2GB	ECC	160GB SSD	No	DVD±RW	Media	Switch	1394	Quadro 2000	No	Pro 64

- ***True workstation-level performance at incredibly low price point***
- ***High Reliability with Independent Software Vendors (ISV) certified applications and ECC memory support***
- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Processor	**Intel® Xeon® E3-1220 processor (4C/4T, 3.1GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.4GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1230 processor (4C/8T, 3.2GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.6GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1240 processor (4C/8T, 3.3GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.7GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1245 processor (4C/8T, 3.3GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.7GHz), integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1280 processor (4C/8T, 3.5GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.9GHz), DDR3 memory controller (up to 1333MHz)
Implementation	One LGA1155 socket
Memory	**UDIMM**, **PC3-10600 1333MHz DDR3**, **ECC** or **non-ECC**, four 240-pin DIMM sockets; *ECC model(s):* 16GB max *Non-ECC model(s):* 16GB max
Additional memory disclaimers	• Actual memory operating speed is the lowest installed speed, dependent on proccessor memory controller speed and installed memory speed • ECC and non-ECC DIMMs cannot be mixed
Graphics	*Some:* **NVIDIA® Quadro® 600**, PCIe x16 adapter, 1GB, one DisplayPort, one dual-link DVI-I, 40W *Some:* **NVIDIA Quadro 2000**, PCIe x16 adapter, 1GB, two DisplayPort, one dual-link DVI-I, 62W
Media reader	25-in-1 media reader, internal USB 2.0
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
Disk(s)	*Some:* 500GB, SATA 3.0Gb/s, 7200 rpm, 3.5" *Some:* 1TB, SATA 3.0Gb/s, 7200 rpm, 3.5" *Some:* 160GB Solid State Drive (SSD), SATA 3.0Gb/s, 1.8"
Disk Controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0, 1 support, two SATA 6.0Gb/s connectors, two SATA 3.0Gb/s connectors
Chipset	**Intel C206 Chipset**, Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB)
Front ports	Two USB 2.0, microphone (3.5mm), headphone (3.5mm),
Rear ports	Six USB 2.0, one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)
IEEE 1394 adptr	*Some:* FireWire PCI adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	One gigabit ethernet on planar, Intel 82579
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black
Mouse	Optical Wheel Mouse (USB connector), black
Power supply	280 watts with variable speed fan, autosensing, 85% PSU, 80 PLUS® Bronze qualified
ThinkVantage®	Supports ThinkVantage technologies
Preload OS	Genuine Windows® 7 Professional 64
Preloaded applications	• Rescue and Recovery • Password Manager • ThinkVantage Toolbox • Norton™ Internet Security (30 days of virus definitions) • Adobe Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2010 preloaded; purchase product key to activate • Corel® WinDVD (for DVD±RW model(s) only) • Corel Burn.Now™ (for DVD±RW model(s) only) • Ulead DVD MovieFactory® (for DVD±RW model(s) only)

Tower



- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 24.7 lb (11.2kg) max configuration
- 25-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

Bay 1: 5.25", 1.6" high, access, for optical
Bay 2: 5.25", 1.6" high, access, open (optical)
Bay 3: 3.5", 1" high, access, for media reader
Bay 4: 3.5", 1" high, internal, for disk
Bay 5: 3.5", 1" high, internal, for disk

Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)
Slot 2: half-length, full-height, PCIe 2.0 x1
Slot 3: half-length, full-height, 32-bit PCI 2.3
Slot 4: half-length, full-height, 32-bit PCI 2.3

Intel AMT

Intel AMT supported on model(s) with Xeon processor

SECURITY

- Security chip (see information on left)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all)
- *Chassis intrusion switch available on selected model(s)*

GREENGUARD® certified
RoHS-compliant
EPEAT™ Gold rating

More compatible accessories, please see O-VEN sheet

LIMITED WARRANTY[1]

- **3-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts**[3]**, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **ThinkPlus™ services available; see http://lenovo.com/thinkplus/warranty**
  - **Onsite service upgrade options (in eligible locations)**[7]
  - **Post warranty maintenance services**
- **24 hour x 7 day**[14] **toll-free support during the warranty period**[1] **via 800-426-7378**
- **More ThinkPlus services are available on S-TS sheet**

See footnotes for important warranty information
US models announced April 19, 2011

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